Operating instructions

POSEIDON 3

Nilfisk
ALTO
works for you

301002313 C

english 8

deutsch 13

français 18

nederlands 23

italiano 28

norsk 33

svensk 38

dansk 43

suomi 48

slovensći 53

hrvatski 58

slovenský 63

český 68

polski 73

magyar 78

русский 83

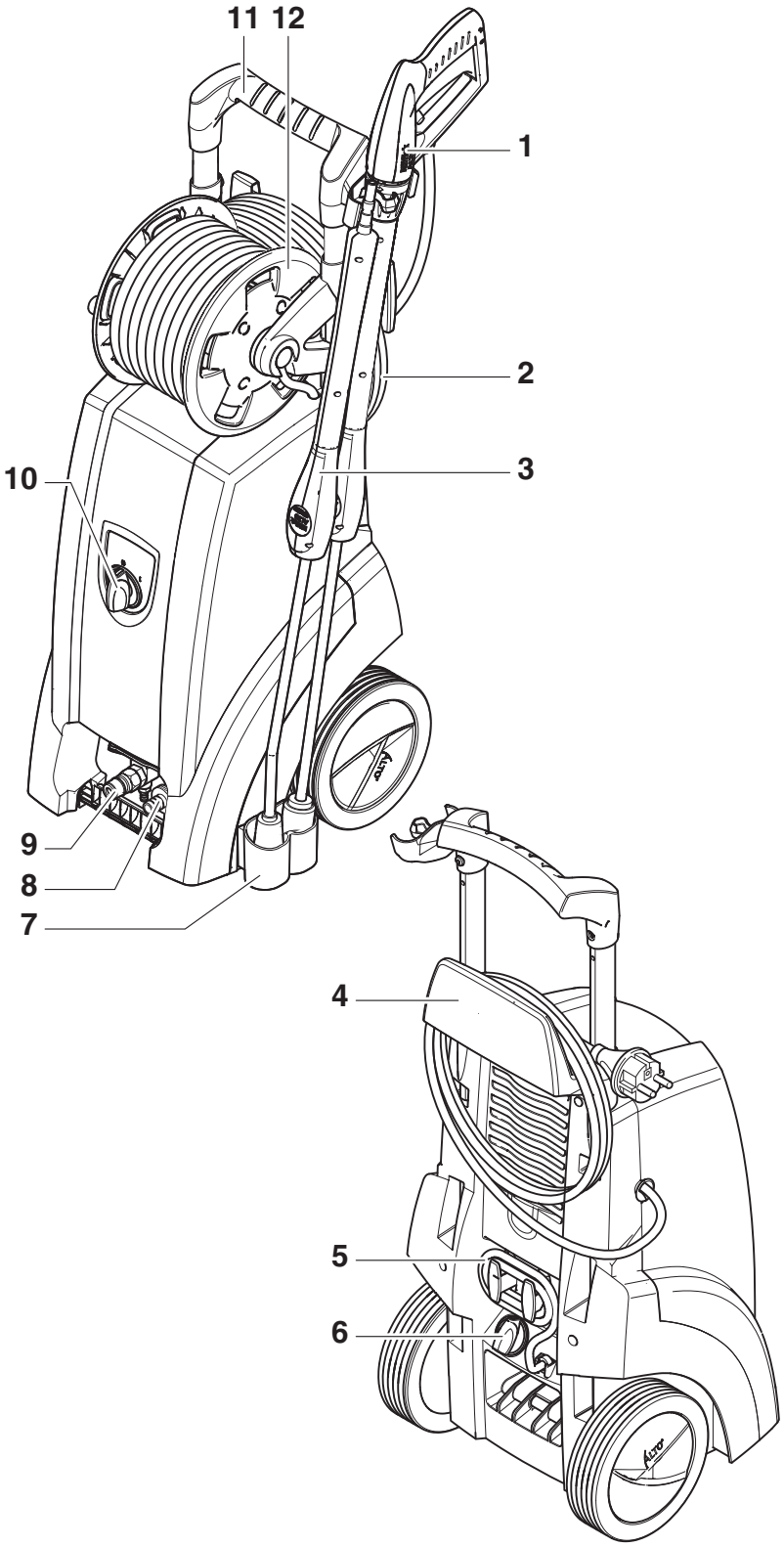
español 88

português 93

ελληνικά 98

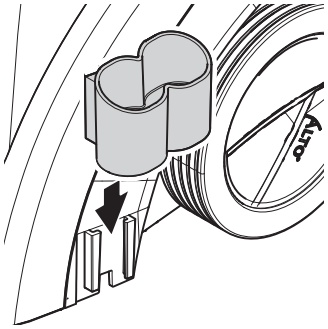
türkçe 103

- (GB) **Operating elements / Accessories**
- (D) **Bedienelemente / Zubehör**
- (F) **Eléments de commande / Accessoires**
- (NL) **Bedieningselementen / Toebehoren**
- (I) **Organi di comando / Accessori**
- (N) **Betjeningselementer / Tilbehør**
- (S) **Manöverelement / Tillbehör**
- (DK) **Betjeningselementer / Tilbehør**
- (SF) **Hallintalaitteet / Tarvikkeet**
- (SLO) **Elementi upravljanja / Pribor**
- (HR) **Elementi posluživanja / Pribor**
- (SK) **Ovládacie prvky / Príslušenstvo**
- (CZ) **Ovládací prvky / Příslušenství**
- (PL) **Elementy sterujące / Wyposażenie**
- (H) **Kezelőelemek / Tartozék**
- (RUS) **Органы управления / принадлежности**
- (E) **Elementos de manejo / Accesorios**
- (P) **Elementos de operação/ Accessórios**
- (GR) **Στοιχεία χρήσης / Συμπληρωματικός εξοπλισμός**
- (TR) **Kumanda elemanları / Aksesuarlar**

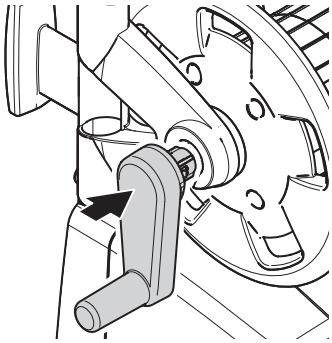


- (GB) **Assembling the cleaner**
- (D) **Gerät zusammenbauen**
- (F) **Assembler l'appareil**
- (NL) **Toestel samenbouwen**
- (I) **Montaggio dell'apparecchio**
- (N) **Montere maskinen**
- (S) **Hopmontering av apparaten**
- (DK) **Samling af apparatet**
- (SF) **Laitteen kokoaminen**
- (SLO) **Sestavitev naprave**
- (HR) **Sagraditi uređaj**
- (SK) **Zmontovať spotrebič**
- (CZ) **Montáž spotřebiče**
- (PL) **Montaż urządzenia**
- (H) **A készülék összeállítása**
- (RUS) **Сборка пароочистителя**
- (E) **Ensamblar el aparato**
- (P) **Montar o aparelho**
- (GR) **Συναρμολόγηση συσκευής**
- (TR) **Cihazýn montajý**

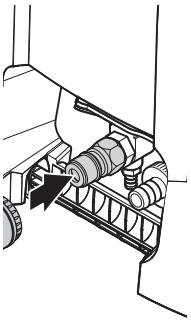
1

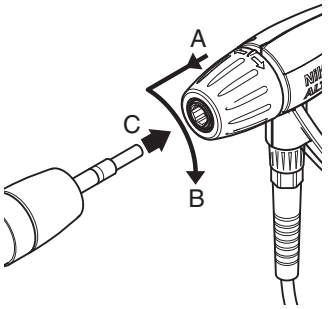


2

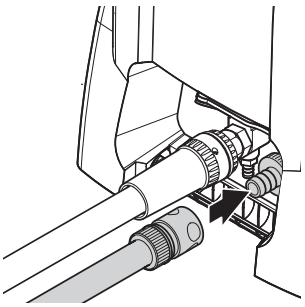


3

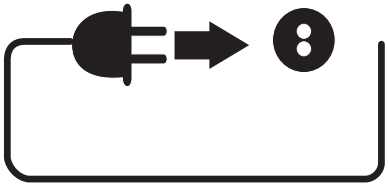




4

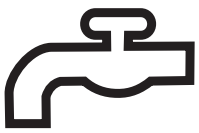


5

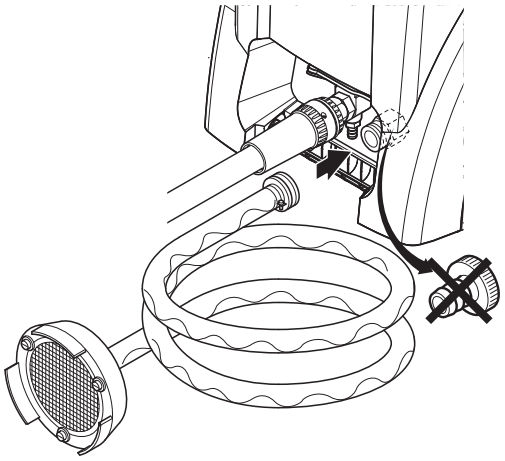


- (GB) **Switching on the cleaner**
- (D) **Gerät einschalten**
- (F) **Mettre l‘appareil en service**
- (NL) **Toestel inschakelen**
- (I) **Accensione dell‘apparecchio**
- (N) **Slå på maskinen**
- (S) **Inkoppling av apparat**
- (DK) **Opstart af apparatet**
- (SF) **Laitteen käynnistäminen**
- (SLO) **Vklop naprave**
- (HR) **Uključiti uređaj**
- (SK) **Spotrebič zapnúť**
- (CZ) **Zapnutí přístroje**
- (PL) **Włączanie urządzenie**
- (H) **A készülék bekapcsolása**
- (RUS) **Включение пароочистителя**
- (E) **Conectar el aparato**
- (P) **Ligar o aparelho**
- (GR) **Ενεργοποίηση συσκευής**
- (TR) **Cihazýn çalýþtýrýlmasý**

1



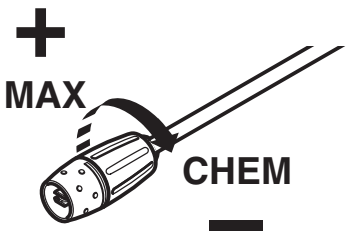
1



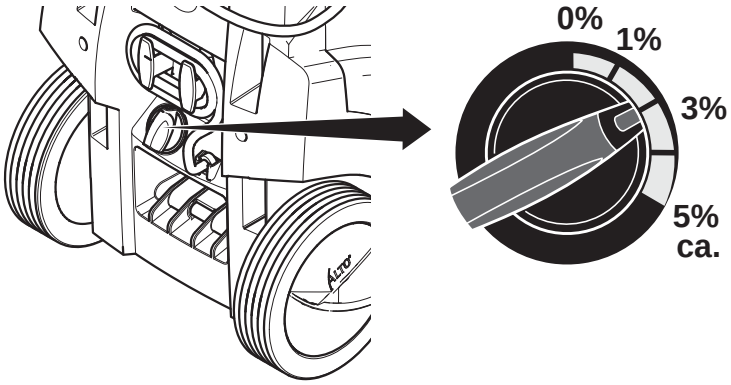
2

- (GB) **Pressure regulation / Using cleaning agents**
- (D) **Druckregulierung / Verwendung von Reinigungsmitteln**
- (F) **Réglage de la pression / Emploi de détergents**
- (NL) **Drukregeling / Gebruik van reinigingsmiddelen**
- (I) **Regolazione della pressione/ Impiego di prodotti detergenti**
- (N) **Trykkregulering / Bruk av rengjøringsmidler**
- (S) **Tryckreglering / Användning av rengöringsmedel**
- (DK) **Trykregulering/ Brug af rengøringsmidler**
- (SF) **Paineensäätö suuttimella / Pesuaineiden käyttö**
- (SLO) **Reguliranje tlaka / Uporaba čistilnih sredstev**
- (HR) **Reguliranje tlaka / Uporaba sredstava za čišćenje**
- (SK) **Regulácia tlaku / Použitie čistiacich prostriedkov**
- (CZ) **Regulace tlaku / Používání čistících prostředků**
- (PL) **Regulacja ciśnienia / Zastosowanie środków czyszczących**
- (H) **Nyomásszabályozás / Tisztítószerek használata**
- (RUS) **Регулировка давления / Применение моющих средств**
- (E) **Regulación de la presión / Utilización de agentes de limpieza**
- (P) **Regulação de pressão / Emprego de produtos de limpeza**
- (GR) **Ρύθμιση πίεσης / Χρήση απορρυπαντικών**
- (TR) **Basýnç ayarý / Temizlik maddelerinin kullanýlmasý**

1



2



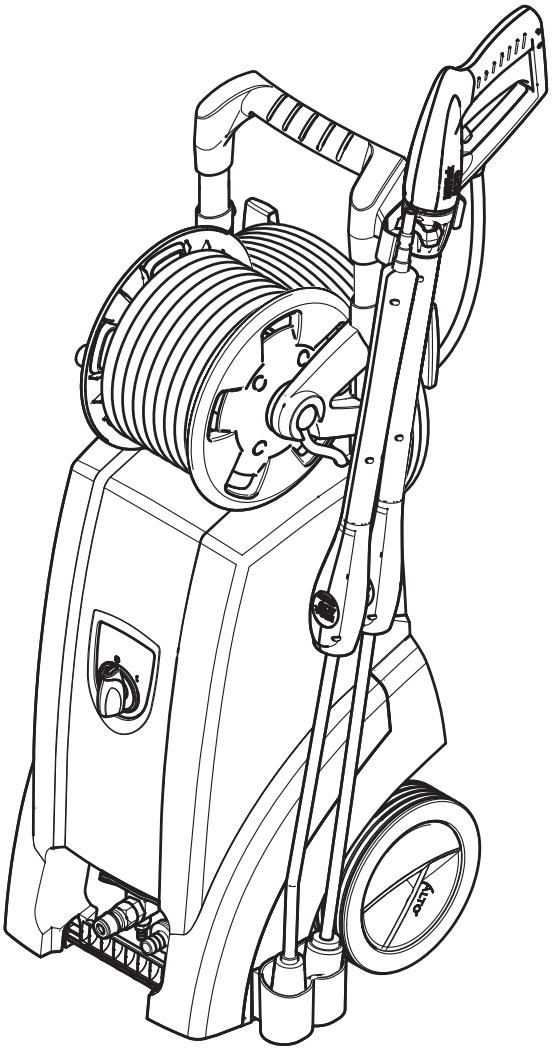
3

4

- (GB) **Switching the cleaner off and storage**
- (D) **Gerät ausschalten und aufbewahren**
- (F) **Arrêter et ranger l'appareil**
- (NL) **Toestel uitschakelen en bewaren**
- (I) **Spegnimento e conservazione dell'apparecchio**
- (N) **Slå av maskinen, oppbevaring**
- (S) **Stänga av och förvara apparat**
- (DK) **Slukning af apparatet og opbevaring**
- (SF) **Laitteen sammuttaminen ja säilytys.**
- (SLO) **Izklop naprave in hranjenje**
- (HR) **Isključiti i pohraniti uređaj**
- (SK) **Nové naplnenia zásobníka**
- (CZ) **Vypnutí a skladování spotřebiče**
- (PL) **Wyłączanie i przechowywanie urządzenia**
- (H) **A készülék kikapcsolása és tárolása**
- (RUS) **Выключение и хранение пароочистителя**
- (E) **Desconexión y depósito del aparato**
- (P) **Desligar e guardar o aparelho**
- (GR) **Απενεργοποίηση και φύλαξη συσκευής**
- (TR) **Cihazýn kapatýlmasý ve muhafaza edilmesi**

1

2



GB Important safety instructions

For your own safety

Before using the high-pressure cleaner, be sure to also read the enclosed operating instructions and keep them within reach at all times.

The high-pressure cleaner may only be used by persons instructed in its use and who have been expressly authorised to do so.

Although extremely easy to operate, children should not be allowed to use the cleaner.

General

Use of the high-pressure cleaner is subject to the applicable local regulations.

Besides the operating instructions and the binding accident prevention regulations valid in the country of use, observe recognised regulations for safety and proper use.

Do not use any unsafe work techniques.
Transport

Transport of the high-pressure cleaner is easy on its large wheels.

For safe transport in and on vehicles we recommend to prevent the equipment from sliding and tilting by fixing it with belts.

Transport (when tilted):
– do not tilt the machine on the front with the water connections.

Before starting the cleaner

Before using the cleaner for the first time, check it carefully to detect any faults or damage.
In the event of any damage contact your Nilfisk-Alto dealer immediately.

If your 3-phase cleaner was supplied without a plug, have it fitted with a suitable 3-phase plug with earth conductor, by an electrician.

CAUTION!
Before connecting devices with voltage changeover: Check that the pre-selected voltage on the machine corresponds with the voltage of the electrical installation. Otherwise the electrical devices of the machine can be destroyed.

Do not connect the cleaner-directly to the public drinking-water mains. A connection is permitted,however:
– briefly to a pipe interrupter-with moving section
– with a free outlet
In the case of poor water quality (sand, etc.), we recommend that a fine water filter is fitted in the water inlet.

We recommend the use of a textile-reinforced water hose with a nominal diameter of min. 3/4" (19 mm).Before use, check that the high-pressure cleaner is safe and in proper condition.

Regularly check whether the power cord is damaged or shows signs of ageing.

Use the high-pressure cleaner only when the mains power lead is in a safe condition. (risk of electric shock if damaged!).

Check the rated voltage of the high-pressure cleaner before connecting it to the mains power supply. Ensure that the voltage shown on the rating plate corresponds to the voltage of the local mains power supply.

We strongly recommend that the power supply to the high pressure cleaner be connected via a residual current circuit breaker.

This device stops the supply of electricity if the leakage current to earth exceeds 30 mA for 30 ms or it has an earth tester circuit.

Operate the cleaner only in an upright position!

Please observe the regulations and provisions applicable in your country. Before putting the high-pressure cleaner into service, carry out a visual check of all the major components.

CAUTION!
High-pressure water jets can be dangerous if misused. The jet must not be directed at persons, animals, live electrical equipment or the cleaner itself.

Wear appropriate protective clothing and eye protectors.

Do not direct the jet towards yourself or towards other persons in order to clean clothes or footwear.

During operation of the cleaner, recoil forces are produced at the spraying device and, when the spray lance is held at an angle, a torque is also created. The spraying device must therefore be held firmly in both hands.

Do not use the cleaner when other people without protective clothing are in the working area.

Check that cleaning will not result in dangerous substances (e.g. asbestos, oil) being washed off the object to be cleaned and harming the environment.

Do not clean delicate parts made of rubber, fabric, etc. with the 0° jet. Keep some distance between high pressure nozzle and surface in order to prevent the surface from damage.

Do not use the high-pressure hose for lifting loads.

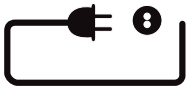
NOTE!
The maximum permissible working pressure and temperature are printed on the high-pressure hose.

Do not continue to use the cleaner if the mains power lead or high-pressure hose is damaged.

Ensure adequate air circulation. Do not cover the cleaner or operate it in inadequately ventilated rooms!

Never operate the cleaner without water. Even brief shortages of water result in severe damage to the pump seals.

Control / Operation



CAUTION!
Unsuitable extension leads can represent a source of danger. Always unwind cord from the reels completely to prevent the power cord overheating.

Plugs and connectors of mains power leads must be at least splash water-proof.

When using an extension cord, check the minimum cross-sections of the cable:

Cable length m	Cross section	
	<16 A	<25 A
up to 20 m	ø1.5mm²	ø2.5mm²
20 to 50 m	ø2.5mm²	ø4.0mm²

Do not damage the mains power lead (e.g. by driving over it, pulling or crushing it).
Disconnect the power cord by pulling the plug only (do not pull or tug the power cord).

CAUTION!
Never spray electrical equipment with water: danger for persons, risk of short-circuiting.

The cleaner may only be connected to a correctly installed plug socket.

Switching on the cleaner may cause voltage fluctuations.
Voltage fluctuations should not occur if the impedance at the transfer point is less than 0.15Ω. If in doubt ask your local electricity supplier.

Storing the cleaner (below 0°C)

Store the cleaner where it will not be exposed to frost!

If the high-pressure cleaner is stored in a room with temperatures around or below 0°C, antifreeze should be drawn into the pump beforehand:

Maintenance and repair

CAUTION!
Always remove the plug from the mains plug socket before cleaning or carrying out maintenance work on the cleaner.

Carry out only the maintenance operations described in the operating instructions. Use only original Nilfisk-Alto spare parts.
Do not make any technical modifications to the high-pressure cleaner.

Ensure that the machine is regularly serviced by Authorised Nilfisk-Alto dealers in accordance with the maintenace plan. Failure to do so will invalidate the warranty.

CAUTION!
High-pressure hoses, fittings and couplings are important for the safety of the cleaner. Use only high-pressure parts approved by the manufacturer!

The mains power lead must not differ from the version specified by the manufacturer and may only be changed by an electrician.

Please contact the Nilfisk-Alto service department or an authorised specialist work-shop for all other maintenance or repair work!

Testing

The cleaner conforms to the German „Guidelines for Liquid Spray Jet Devices“. The high-pressure cleaner must be subjected to a safety examination in accordance with the „Accident Prevention Regulations for Working with Liquid Spray Jet Devices (BGV A3)“ as required, but at least every 12 months, by an authorised inspector.

After all repairs or modifications to electrical equipment, the protective conductor resistance, the insulation resistance and the leakage current must be measured. Furthermore, a visual inspection of the mains power lead, a voltage and current measurement and a function test must be carried out. Our after-sales service technicians are at your disposal as authorised inspectors.

The complete „Accident Prevention Regulations for Working with Liquid Spray Jet Devices“ are available from the Carl Heymanns Verlag KG, Luxemburger Strasse 449, 50939 Cologne or from the appropriate association of employers' liability insurances.

Unloader valve

Unacceptably high pressure is fed back without residual pressure via a bypass line into the intake line of the pump when the safety device is tripped.
The unloader valve is set and sealed at the factory and must not be adjusted.

GB Description

Purpose

This high-pressure cleaner has been designed for professional use in

– Agriculture
– industry
– transport industry
– automotive cleaning
– municipal facilities
– cleaning trade
– construction industry
– food industry

etc.

Always use the cleaner as described in these operating instructions. Any other use may damage the cleaner or the surface to be cleaned or may result in severe injury to persons.

Control / Operation

Operating elements

1 Spray gun
2 Mains power lead
3 Spray lance
4 Receptacle for electrical lead
5 Detergent intake hose
6 Detergent metering knob
7 Receptacle for Spray lance
8 Supply water connection with water inlet filter
9 High pressure hose connection
10 Main switch
11 Handle
12 Hose reel[1)]

Using cleaning agents

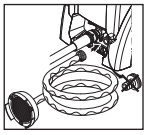
Cleaning agent can be drawn in via the injector installed as standard only in low-pressure mode.

CAUTION!
Never allow cleaning agent to dry on the surface to be cleaned. The surface may be damaged.

[1)] Model variants

Maintenance / Troubleshooting

GB

Fault	Cause	Remedy
Pressure drop	> Air in the system	• Vent the system by operating the spray gun several times at short intervals. If necessary, operate the cleaner for a short time without the high-pressure hose connected.
	> High pressure nozzle blocked worn	• Clean/replace the high pressure nozzle
	> Pressure control on the spray pipe is not set correctly	• Set the required working pressure
	> Detergent tank empty	• Top up detergent tank or set detergent metering to “0”
Pressure fluctuations	> Pump draws in air (only possible in suction mode)	• Check that the suction set is air-tight
	> Lack of water	• Open water tap
	> Water inlet hose is too long or its cross-section too small	• Use specified water inlet hose
	> Lack of water caused by blocked water filter 	• Clean the water filter in the water connection (never work without water filter)
	> Lack of water because max. permissible suction height has not been heeded	• See instructions
The motor does not start when the cleaner is switched on	> The plug is not inserted pro perly, i.e. there is no current	• Check the plug, lead and switch and if necessary have them replaced by a trained electrician
	> The mains fuse is switched off	• Switch on the mains fuse

Recycling the cleaner

Make the old cleaner unusable immediately.

1. Unplug the cleaner and cut the power cord.

Do not discard of electrical appliances with household waste.

As specified in European Directive 2002/96/EC on old electrical and electronic appliances, used electrical goods must be collected separately and recycled ecologically. Contact your local authorities or your nearest dealer for further information.
Guarantee

Guarantee

Our general conditions of business are applicable with regard to the guarantee. Subject to change as a result of technical advances.

GB

Technical Data

POSEIDON 3								
		3-16 3-16 XT	**3-20**	**3-24 3-24 XT**	**3-26 3-26 XT**	**3-28 3-28 XT**	**3-30**	**3-40 3-40 XT**
U/Ph/f	V/Ph/Hz	110/1/50 (GB) 100/1/50 (JP) 100/1/60 (JP)	120/1/60	230/1/55	230/1/50	230/1/50	220/1/60 (EXP,US) 230/1/50 (EU)	220-440/3/60 (EXP) 230-400/3/50 (NO) 400/3/50 (EU,GB) 415/3/50 (SG)
I	A	16 (GB) 15 (JP)	15	10 (CH,DK,AU) 13 (ZA)	13	12	15 (EXP,US) 15.1 (EU)	13.5/7.5 (EXP) 14.5/8.5 (NO) 8.5 (EU,GB,SG)
P	kW	1.6 (GB) 1.5 (JP)	1.8	2.3 (DK,AU) 3 (ZA)	3	2.75	3.3 (EXP,US) 3.4 (EU)	4.2
Q_{IEC}	l/h	400	510 (2.2 gal)	600	520	600	600 (2.6 gal)	750
Q_{max}	l/h	440	570 (2.5 gal)	660	570	660	660 (3 gal)	825
p	bar/MPa	100/10	95/9.5 (1400 psi)	100/10	150/15	130/13	150/15 (2200 psi)	170/17
p_{max}	bar/MPa	165/16.5	150/15 (2175 psi)	165/16.5 (2400 psi)	165/16.5 (2400 psi)	165/16.5 (2400 psi)	165/16.5 (2400 psi)	200/20
t_{max}	°C	60 (140 °F)	60 (140 °F)	60 (140 °F)	60 (140 °F)	60 (140 °F)	60 (140 °F)	60 (140 °F)
L_{WA}	dB(A)	95	95	95	95	95	95	98
		IP X5	IP X5	IP X5	IP X5	IP X5	IP X5	IP X5

EU Declaration of Conformity

EU Declaration of Conformity

Product:	High Pressure Washer
Type:	Poseidon 3
The design of the unit corresponds to the following pertinent regulations:	EC Machine Directive 2006/42/EC EC Low-voltage Directive 2006/95/EC EC EMC Directive 2004/108/EC EC RoHS Directive 2011/65/EC
Applied harmonised standards:	EN 12100, EN 60335-2-79, EN 55014-1, EN 55014-2, EN 61000-3-2
Applied national standards and technical specifications:	DIN EN 60335-2-79
Name and address of the person authorised to compile the technical file:	Anton Sørensen General Manager, Technical Operations EAPC Nilfisk-Advance A/S Sognevej 25 DK-2605 Brøndby
Identity and signature of the person empowered to draw up the declaration on behalf of the manufacturer:	Anton Sørensen General Manager, Technical Operations EAPC Nilfisk-Advance A/S Sognevej 25 DK-2605 Brøndby
Place and date of the declaration:	Hadsund, October 12, 2012

Nilfisk
ALTO
works for you

HEAD QUARTER

DENMARK
Nilfisk-Advance A/S
Sognevej 25
DK-2605 Brøndby
Tel.: (+45) 4323 8100
www.nilfisk-advance.com

SALES COMPANIES

ARGENTINA
Nilfisk-Advance srl.
Herrera 1855, 6 floor, Of. A-604
ZC 1293 – Ciudad Autónoma
de Buenos Aires – Argentina
www.nilfisk-alto.com

AUSTRALIA
Nilfisk-ALTO
Unit 1, 13 Bessemer Street Blacktown
NSW 2148 Australia
www.nilfisk-alto.com.au

AUSTRIA
Nilfisk-ALTO
Geschäftsbereich der Nilfisk-Advance GmbH
Metzgerstraße 68
A-5101 Bergheim/Salzburg
www.nilfisk-alto.at

BELGIUM
Nilfisk-Advance NV/SA
Riverside Business Park
Boulevard Internationalelaan 55
Bâtiment C3/C4 Gebouw
Bruxelles 1070 Brussel
www.nilfisk.be

CHILE
Nilfisk-Advance S.A.
San Alfonso 1462, Santiago
www.nilfisk.com

CHINA
Nilfisk-Advance Cleaning Equipment
(Shanghai) Co Ltd.
No. 4189, Yindu Road
Xinzhuang Industrial Park
Shanghai 201108
www.nilfisk.cn

CZECH REPUBLIC
Nilfisk-Advance s.r.o.
Do Certous 1
VGP Park Horní Pocernice, Budova H2
CZ-190 00 Praha 9
www.nilfisk.cz

DENMARK
Nilfisk-ALTO Danmark
Industrivej 1
Hadsund, DK-9560
www.nilfisk-alto.dk

FINLAND
Nilfisk-Advance OY Ab
Koskelontie 23E
Espoo, FI-02920
www.nilfisk.fi

FRANCE
Nilfisk-Advance SAS
Division ALTO
BP 246
91944 Courtaboeuf Cedex
www.alto-fr.com

GERMANY
Nilfisk-ALTO
Geschäftsbereich der Nilfisk-Advance AG
Guido-Oberdorfer-Straße 10
89287 Bellenberg
www.nilfisk-alto.de

GREECE
Nilfisk-Advance A.E.
8, Thoukididou Str.
Argiroupoli,Athens, GR-164 52
www.nilfisk.gr

HOLLAND
Nilfisk-Advance B.V.
Versterkerstraat 5
1322 AN ALMERE
www.nilfisk.nl

HONG KONG
Nilfisk-Advance Ltd.
2001 HK Worsted Mills Ind'l Bldg.
31-39 Wo Tong Tsui St.
Hong Kong, Kwai Chung, N.T.
www.nilfisk.com

HUNGARY
Nilfisk-Advance Kereskedelmi Kft.
H-2310 Szigetszentmiklós-Lakihegy
II. Rákóczi Ferenc út 10.
www.nilfisk.hu

INDIA
Nilfisk-Advance India Limited
Pramukh Plaza, 'B' Wing, 4th floor, Unit No. 403
Cardinal Gracious Road, Chakala
Andheri (East), Mumbai 400 099
www.nilfisk.com

IRELAND
Nilfisk-Advance
1 Stokes Place
St. Stephen's Green
Dublin 2, Ireland
www.nilfisk-alto.ie

ITALY
Nilfisk-Advance S.p.A.
Strada Comunale Della Braglia, 18
Guardamiglio, Lombardia, I-26862
www.nilfisk.it

JAPAN
Nilfisk-Advance Inc.
1-6-6 Kita-Shinyokohama
Kouhoku-Ku
Yokohama 223-0059
www.nilfisk-advance.co.jp

KOREA
NIlfisk-Advance Korea
471-4, Kumwon B/D 2F,
Gunja-Dong, Gwangjin-Gu, Seoul
www.nilfisk-advance.kr

MALAYSIA
Nilfisk-Advance Sdn Bhd
SD 33, Jalan KIP 10
Taman Perindustrian KIP
Sri Damansara
52200 Kuala Lumpur
Malaysia
www.nilfisk.com

MEXICO
Nilfisk Advance de Mexico S. de R.L. de C.V.
Agustin M. Chavez 1, PB-004
Col. Centro Ciudad Santa Fe
C.P. 01210 México, D.F.
www.nilfisk-advance.com.mx

NEW ZEALAND
Nilfisk-Advance NZ Ltd
Danish House
6 Rockridge Avenue
Penrose Auckland NZ 1135
www.nilfisk.com.au

NORWAY
Nilfisk-Advance AS
Bjørnerudvejen 24
Oslo, N-1266
www.nilfisk-alto.no

POLAND
Nilfisk-Advance Sp. z.o.o
ul. 3-go Maja 8, Bud. B4
Pruszków, PL-05-800
www.nilfisk-alto.pl

PORTUGAL
Nilfisk-Advance, Lda.
Sintra Business Park
Zona Industrial Da Abrunheira
Edificio 1, 1o A
Sintra, P-2710-089
www.nilfisk.pt

RUSSIA
Nilfisk-Advance LLC
Vyatskaya str. 27, bld. 7, 1st floor
Moscow, 127015
www.nilfisk.ru

SOUTH AFRICA
WAP South Africa (Pty) Ltd
12 Newton Street
1620 Spartan, Kempton Park
www.wap.co.za

SINGAPORE
Nilfisk-Advance Pte Ltd
22 Tuas Avenue 2
Singapore 639453
www.nilfisk.com

SPAIN
Nilfisk-Advance, S.A.
Torre D'Ara
Passeig del Rengle, 5 Plta.10ª
Mataró, E-0830222
www.nilfisk.es

SWEDEN
Nilfisk-ALTO
Aminogatan 18
Mölndal, S-431 53
www.nilfisk-alto.se

SWITZERLAND
NA Sondergger AG
Nilfisk-ALTO Generalvertretung
Mühlestrasse 10
CH-9100 Herisau
www.nilfisk-alto.ch

TAIWAN
Nilfisk-Advance Ltd.
Taiwan Branch (H.K.)
No. 5, Wan Fang Road, Taipei
www.nilfisk-advance.com.tw

THAILAND
Nilfisk-Advance Co. Ltd.
89 Soi Chokechai-Ruammitr
Viphavadee-Rangsit Road
Jomphol, Jatuchak
Bangkok 10900
www.nilfisk.com

TURKEY
Nilfisk-Advance A.S.
Serifali Mh. Bayraktar Bulv. Sehit Sk. No:7
Ümraniye, Istanbul 34775
www.nilfisk.com.tr

UNITED KINGDOM
Nilfisk-ALTO
Bowerbank Way, Gilwilly Industrial Estate
Penrith, Cumbria
GB-CA11 9BQ
www.nilfisk-alto.co.uk

UNITED ARAB EMIRATES
Nilfisk-Advance Middle East Branch
SAIF-Zone, P. O. Box 122298
Sharjah
www.nilfisk.com

USA
Nilfisk-Advance
14600 21st Ave. North
Plymouth MN 55447-3408
www.nilfisk-alto.us

VIETNAM
Nilfisk-Advance Co., Ltd.
No.51 Doc Ngu Str. Lieu Giai Ward
Ba Dinh Dist. Hanoi
www.nilfisk.com